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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/807,692	04/17/2001	Motokazu Watanabe	43888-098	2364
75	590 01/17/2002			
McDermott Will & Emery			EXAMINER	
600 13th Street NW Washington, DC 20005-3096			NOGUEROLA, ALEXANDER STEPHAN	
			ART UNIT	PAPER NUMBER
			1743	5
			DATE MAILED: 01/17/2002	

Please find below and/or attached an Office communication concerning this application or proceeding.



Office Action Summary

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Application No.	Applicant(s)	
09/807,692	WATANABE ET AL.	
Examiner	Art Unit	
ALEX NOGUEROLA	1743	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

 Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). 							
1)	Responsive to communication(s) t	filed on <u>17 April 200</u> 1	· ! .				
2a) <u></u>	This action is FINAL.	2b)⊠ This action					
3) 🗌	Since this application is in condition closed in accordance with the practice.	on for allowance exce ctice under <i>Ex parte</i>	ept for formal matters, prosecution as to the merits is Quayle, 1935 C.D. 11, 453 O.G. 213.				
Dispositi	on of Claims						
4)🖂	Claim(s) 1-11 is/are pending in the	application.					
	4a) Of the above claim(s) is/a	are withdrawn from o	consideration.				
5)	Claim(s) is/are allowed.						
6)⊠	Claim(s) 1-11 is/are rejected.						
7)	Claim(s) is/are objected to.						
8)[Claim(s) are subject to restri	iction and/or election	requirement.				
Applicati	on Papers						
9) 🗌 .	The specification is objected to by th	ne Examiner.					
10)🖾 -	The drawing(s) filed on <u>17 April 200</u>	<u>1</u> is/are: a)⊠ accepte	d or b)☐ objected to by the Examiner.				
			s) be held in abeyance. See 37 CFR 1.85(a).				
11) 🔲 -			approved b) disapproved by the Examiner.				
_	If approved, corrected drawings are re		Office action.				
	The oath or declaration is objected to	o by the Examiner.					
	nder 35 U.S.C. §§ 119 and 120						
_	Acknowledgment is made of a clain	n for foreign priority (ınder 35 U.S.C. § 119(a)-(d) or (f).				
a)[All b) Some * c) None of:						
	1. Certified copies of the priority						
	<u> </u>		en received in Application No				
	application from the Inter	national Bureau (PC					
	ee the attached detailed Office actions		·				
	_		under 35 U.S.C. § 119(e) (to a provisional application).				
	☐ The translation of the foreign la		under 35 U.S.C. §§ 120 and/or 121.				
Attachment		promise promy					
2) 🔲 Notice	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (F nation Disclosure Statement(s) (PTO-1449) F		4) Interview Summary (PTO-413) Paper No(s) 5) Notice of Informal Patent Application (PTO-152) 6) Other:				

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the invention:

Claim Rejections - 35 USC § 112

1. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

- 2. Claims 1-12 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as
- a) regarding claims 1-11, the phrase "one kind of" renders the claims indefinite because the claims include elements not actually disclosed (those encompassed by "or the like"), thereby rendering the scope of the claims unascertainable. See MPEP § 2173.05(d).

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 4. Claims 1, 4, and 5 are rejected under 35 U.S.C. 102(b) as being anticipated by Toshihiko et al. (JP 410227755 A) ("Toshihiko"). All of the claimed limitations may be found in the English language abstract of Toshihiko, except for gluconic acid or salts thereof. Gluconic acid or a salt thereof is anticipated because gluconic acid is a product of the activity of glucose

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dehydrogenase when it reacts with glucose. See the CAPLUS abstract of Howaldt et al. ("A continuous enzyme membrane reactor retaining the native nicotinamide cofactor NAD(H)", Ann. N. Y. Acad. Sci. (1990), 589(Biochem. Eng. 6), 253-60) or Woodward et al. (US 5,942,424) Figure 1 and column 3, lines 19-24.

For Claim 5 note that "electron acceptor" in the abstract of Toshihiko is understood to be synonymous with "electron mediator."

Allowable Subject Matter

- 5. Claims 2, 3, and 6-11 would be allowable if rewritten to overcome the rejection(s) under 35 U.S.C. 112, second paragraph, set forth in this Office action and to include all of the limitations of the base claim and any intervening claims.
- 6. The following is a statement of reasons for the indication of allowable subject matter: the prior art of record does not disclose the invention of
 - a) Claim 2, which requires an additive as specified in the claim;
 - b) Claim 3, which requires calcium ions in the reaction layer, and
 - c) Claims 6-11, which depend from Claim 2 or Claim 3.

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Any inquiry concerning this communication or earlier communications from the 7. examiner should be directed to ALEX NOGUEROLA whose telephone number is (703) 305-5686. The examiner can normally be reached on M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, JILL WARDEN can be reached on (703) 308-4037. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 308-7719 for regular communications and (703) 305-5433 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0661.

January 13, 2002